CERTIFICATE OF MAILING (37 C.F.R. §1.8)

I hereby certify that this paper, together with all enclosures identified herein, are being deposited with the United States Postal Service as first class mail, addressed to Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450, on or before October 23, 2007.

ululul Date William I. King III

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

McNicholl

Examiner

To be assigned

Serial No.

10/538,675

Group Art Unit

To be assigned

Confirmation No.

To be assigned

Filed

June 9, 2005

Attorney Docket No.

IPG-051112

Title

A DEVICE FOR TEMPORARILY SHIELDING THE

END OF A SURGICAL INSTRUMENT SHARP

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

PETITION TO VACATE STATUS OF ABANDONMENT UNDER 37 C.F.R. §1.181

Dear Sir:

This communication is in response to the Notification of Abandonment mailed June 15, 2006, (Ex. A), which to the best of Applicant's knowledge may apply to the present application even though the majority of the data on the Notification of Abandonment is inconsistent with

Applicant's file. If Ex. A does not apply to the present application, Applicant respectfully requests that the present petition be disregarded.

By way of background, Applicant respectfully submits that the following documents were transmitted to the United States Patent and Trademark Office (USPTO) on June 9, 2005:

- 1) Transmittal Letter to the United States Designated/Elected Office;
- 2) Preliminary Amendment;
- 3) A copy of the International Application as published;
- 4) Declaration and Power of Attorney;
- 5) PTO Form 2038 for fees identified thereon; and
- 6) Certificate of Mailing by Express Mail and Receipt. (Ex. B; Original National Phase Filing Documentation)

Applicant further respectfully submits that the above-identified Original National Phase Filing Documentation was acknowledged as received by the USPTO on June 9, 2005. (Ex. C; Stamped, Return Receipt Postcard) On May 23, 2006, Mr. Winston Alvarado contacted the undersigned and requested an updated PTO Form 1390 to correct a typographical informality, which was transmitted to Mr. Alvarado the same day via facsimile. (Ex. D; PTO Form 1390 with facsimile confirmation)

On June 15, 2006, a Notification of Abandonment (Ex. A) was issued by the USPTO for failing to provide the full U.S. Basic National Fee by 30 Months 37 C.F.R. §1.495(b)(2). If Ex. A does, indeed, apply to the present application, Applicant respectfully submits that it did timely pay the full U.S. Basic National Fee by 30 Months 37 C.F.R. §1.495(b)(2) via PTO Form 2038 (Ex. B). To confirm that Applicants' credit card was indeed charged the requisite fee on June 17, 2005, Applicant hereby submits a redacted American Express statement pertaining to the same. (Ex. E) By way of additional verification, Mr. Goodwin in the Office of Finance at the USPTO

also verified that Applicants' credit card ending in 91056, which was authorized via PTO Form 2038 to pay the U.S. Basic National Fee was, indeed, charged \$1,030.00 on June 17, 2005, for the above-identified fee. As such, Applicant respectfully submits that the Notification of Abandonment for failure to pay the full U.S. Basic National Fee is improper.

In addition, as indicated on Page 2 of the original Transmittal Letter, authorization was given to charge any additional fees to Deposit Account No. 50-2131 (Ex. B). Applicant respectfully submits that Deposit Account No. 50-2131 maintained a balance of well over \$2,500.00 from June 2005, up to and including June 2006, — in the event any additional fees were required. (Ex. F)

Applicant respectfully submits that any delay in filing the present Petition to Vacate should be deemed timely inasmuch as Applicant is still uncertain whether the Notification of Abandonment applies to the present application. In particular, a majority of the data is inconsistent with that which was submitted in Ex. B. Applicant is simply petitioning at this time because Applicant has not received any further communication from the USPTO including an anticipate filing receipt and notice to file missing parts.

In light of the foregoing clarifications, Applicant respectfully requests that the present status of abandonment of the above-identified application be vacated and further respectfully requests reinstatement of the above-identified patent application in accordance with 37 C.F.R. §1.181 to, in turn, receive the Filing Receipt and Notice to File Missing Parts so that Applicant can submit the Declaration and Power of Attorney, and proceed with prosecution of the application.

Pursuant to 37 C.F.R. §1.182 and/or 37 C.F.R. §1.183, if any other charges or fees are required under 37 C.F.R. §1.17(f) or must be credited in connection with this communication,

they may be paid out of our Deposit Account No. 50-2131.

Should anything further be required, a telephone call to the undersigned, at (616) 355-0400, is respectfully solicited.

Respectfully submitted, KING & PARTNERS, PLC

Dated: 10 23 07

William L. King III Reg. No. 46,830

KING & PARTNERS, PLC 170 College Avenue, Suite 230 Holland, Michigan 49423

T: (616) 355-0400 F: (616) 355-9862



SUITE 230

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandra, Virginia 22313-1450 www.unpto.gov

U.S. APPLICATION NUMBER NO.

FIRST NAMED APPLICANT

ATTY. DOCKET NO. IPG-051112

10/538,675

Frank J. RAUSCHER

INTERNATIONAL APPLICATION NO.

PCT/US03/05347

PRIORITY DATE

I.A. FILING DATE

12/09/2003

02/21/2002

CONFIRMATION NO. 3694

371

ABANDONMENT/TERMINATION

LETTER

OC000000019284318*

Date Mailed: 06/15/2006

King & Partners, PLC

170 College Avenue

HOLLAND, MI 49423

NOTIFICATION OF ABANDONMENT

The United States Patent and Trademark Office in its capacity as a Designated / Elected Office (37 CFR 1.495) has made the following determination:

Applicant has failed to provide the full U.S. Basic National Fee by 30 months (37 CFR 1.495(b)(2)).

Therefore, the above identified application failed to meet the requirements of 35 U.S.C. 371 and 37 CFR 1.495, and is ABANDONED AS TO THE UNITED STATES OF AMERICA.

WINSTON M ALVARADO

Telephone: (703) 308-9140 EXT 206

PART 1 - ATTORNEY/APPLICANT COPY

FORM PCT/DO/EO/909 (371 Abandonment Notice)

EXHIBIT A

PTO-1390 (Rev. 02-2005)

Approved for use through 3/31/2007. OMB 0651-0021 U.S. Patent and Trademark Office; U.S. DEPARTMNT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control

TRANSMITTAL LETTER T	ATTORNEY'S DOCKET NUMBER							
DESIGNATED/ELECTE	U.S. APPLICATION NO. (if known. see 37 CFR 1.5)							
CONCERNING A SUBMISS	C.O. T. C.O. (II KIIDWII, See 37 CFR 1.5)							
INTERNATIONAL APPLICATION NO. PCT/US03/05347	INTERNATIONAL FILING DATE 09/12/2003	PRIORITY DATE CLAIMED 09/12/2002						
TITLE OF INVENTION A Device for Temporarily Shielding the End of a Surgical Instrument Sharp								
APPLICANT(S) FOR DO/EO/US McNicholi								
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:								
This is a First submission of items concerning a submission under 35 U.S.C. 371.								
2. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.								
3. X This is an express request to begin national examination procedures (35 U.S.C. 371 (f)). The submission must include items (5), (6), (9) and (21) indicated below.								
4. X The US has been elected (Article 31).								
5. X A copy of the International Application as filed (35 U.S.C. 371 (c)(2))								
a. is attached hereto (required only if not communicated by the International Bureau).								
b. X has been communicated by the International Bureau.								
c. is not required, as the application was filed in the United States Receiving Office (RO/US).								
6. An English language translation of the International Application as filed (35 U.S.C. 371 (c)(2)).								
a. is attached hereto.								
b. has been previously submitted under 35 U.S.C. 154(d)(4).								
7. X Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))								
a are attached hereto (required only if not communicated by the International Bureau).								
b. have been communicated by the International Bureau.								
c. have not been made; however, the time limit for making such amendments has NOT expired.								
d. X have not been made and will not be made. 8. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).								
9. X An eath or declaration of the inven	tor(s) (35 LISC 371(s)(4))	Article 19 (35 U.S.C. 371(c)(3)).						
Article 36 (35 U.S.C. 371(c)(5)).								
Items 11 to 20 below concern document(s) or information included:							
13. X A preliminary amendment.	ding. A separate cover sheet in compliance	e with 37 CFR 3.28 and 3.31 is included.						
14. An Application Data Sheet under 3	7 CED 4 70							
15. A substitute specification.	7 OFR 1.70.							
16. X A power of attorney and/or change	of addross letter							
7. A computer-readable form of the sequence listing in accordance with PCT Rule 13 <i>ter</i> .2 and 37 CFR 1.821 ~ 1.825. 8. X A second copy of the published International Application under 35 U.S.C. 154(d)(4).								
The international Application under 35 U.S.C. 154(d)(4).								
20. X Other items or information: Return Postcard, Power of Attorney, and Certificate of Express Mail.								

This collection of information is required by 37 CFR 1.414 and 1.491–1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

PTO-1390 (Rev. 02-2005)
Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMNT OF COMMERCE
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U.S. APPLICAT	J.S. APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO. PCT/US03/05347		ATTORNEY'S DOCKET NUMBER IPG-051112				
The following fees have been submitted						CALCULATIONS PTO USE ONLY	
21. X Basic	c national fee				\$300.00	\$ 300.00	PIO OSE ONLY
22. X Examination fee If International preliminary examination report prepared by USPTO and all claims satisfy provisions of PCT Article 33(1)-(4) \$100.00 All other situations \$200.00					\$200.00		
23. X Search fee Search fee (37 CFR 1.445(a)(2) has been paid on the international application to the USPTO has an International Searching Authority					\$400.00		
TOTAL OF 21, 22 and 23 =					\$900.00	•	
Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing or computer program listing filed in an electronic medium). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.							
Total Sheets	Extra sheets	Number of each (round up to a w	additional 50 or fraction ther hole number)	eof	RATE		
20 -100 =	0 /50 =		0		x \$250.00	\$ 0.00	
Surcharge of \$130.00 for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(h)).						\$130.00	
CLAIMS	NUM	BER FILED	NUMBER EXTRA		RATE		
Total claim	\$ 2	0 - 20 =	0	Х	\$50.00	\$ 0.00	
Independent claims		3 - 3 =	0	Х	\$200.00	\$ 0.00	
MULTIPLE DEPEN	DENT CLAIM(S) (if a	oplicable)		+	\$360.00	\$ 0.00	
		· · · · · · · · · · · · · · · · · · ·		_	ALCULATIONS =	\$1,030.00	
X Applicant cl	aims small entity statu	s. See 37 CFR 1.	27. The fees indicated above	e are r	educed by 1/2.		
SUBTOTAL =						\$1,030.00	
Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).					\$ 0.00		
TOTAL NATIONAL FEE =					\$1,030.00		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property					\$ 0.00		
			TOTA	. FEE	S ENCLOSED =	\$1,030.00	
					Amount to be refunded:	\$	
						Amount to be charged:	\$
a. A check in the amount of \$ to cover the above fees is enclosed. b. Please charge my Deposit Account No in the amount of \$ to cover the above fees. A duplicate copy of this sheet is enclosed.							
c. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 50-2131 A duplicate copy of this sheet is enclosed.							
d. X Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.							
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.							
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	ege Avenue, Suite 230 William I. King III						
	46,830 REGISTRATION NUMBER						
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

McNicholl

Examiner

To Be Assigned

Serial No.

To Be Assigned

Group Art Unit

To Be Assigned

Filed

June 9, 2005

Attorney Docket No.

IPG-051112

Title

A DEVICE FOR TEMPORARILY SHIELDING THE

END OF A SURGICAL INSTRUMENT SHARP

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

PRELIMINARY AMENDMENT

Dear Sir:

Please amend the application as indicated below, prior to the calculation of filing fees, and please consider the following remarks toward consideration of the application and passage to allowance thereof.

CLAIM AMENDMENTS

Claims 1-18 (canceled)

- 19. (new) A device for temporarily shielding the end of a surgical instrument sharp, comprising:
 - a housing having a proximal end and a distal end;
- an opening formed in the distal end of the housing for receiving an end of a surgical instrument sharp therethrough;
- a body located in the housing and movable between a first position in which an end of the body obstructs the opening and a second position in which the body is retracted from the opening;
 - resilient means for biasing the body into the first position; and
- actuation means to move the body against the action of the resilient means into the second position.
- 20. (new) The device according to claim 19, wherein the body comprises a piston with a tapered distal end.
- 21. (new) The device according to claim 19, wherein the resilient means comprises a spring means which is mounted between the proximal end of the body and a stop means within the housing.
- 22. (new) The device according to claim 21, wherein the spring means comprises a coil spring.

- 23. (new) The device according to claim 19, in combination with forceps, wherein the device is mounted on the forceps and the resilient means is provided by the resilience of the forceps.
- 24. (new) The device according to claim 23, in combination with forceps wherein said actuation means comprises a coupling provided between said body of the device and an arm of the forceps.
- 25. (new) The device according to claim 24, in combination with forceps, wherein the coupling is formed integrally with the body.
- 26. (new) The device according to claim 19, wherein the opening is defined by a re-entrant end wall portion of the housing.
- 27. (new) The device according to claim 19, wherein the inner surface of the housing tapers inwardly towards the opening.
- 28. (new) The device according to claim 19, wherein the actuation means comprises a pullwire secured to the body.
- 29. (new) The device according to claim 19, wherein at least the end of the body which obstructs the opening can wobble from side to side when the body is in said second position.

- 30. (new) The device according to claim 19, further comprising first and second arms and said actuation means is coupled to at least one of said first and second arms.
- 31. (new) The device according to claim 30, wherein said actuation means is a coupling provided between said body of the device and the at least one of said first and second arms.
- 32. (new) The device according to claim 31, wherein said coupling is a support bar.
- 33. (new) The device according to claim 30, wherein said actuation means is integrally formed with said body.
- 34. (new) The device according to claim 30, wherein said first and second arms are spring biased towards or away from each other and the resilient means is provided by the spring bias of said first and second arms.
- 35. A device for temporarily shielding the end of a surgical instrument sharp, comprising:
 - a housing having a proximal end and a distal end;
- an opening formed in the distal end of the housing for receiving an end of a surgical instrument sharp therethrough;
- a body located in the housing and movable between a first position in which an end of the body obstructs the opening and a second position in which the body is retracted from the opening;
 - first and second arms movable relative to each other;

- a support bar to couple the body to one of said first and second arms; and
- wherein movement of the first and second arms relative to each other causes the support bar to move the body between said first and second positions.

<u>REMARKS</u>

Applicant has amended the application and submits that substantial care has been taken to avoid the introduction of any new subject matter into the application as a result of the foregoing amendments.

In particular, Applicant has cancelled claims 1-18 and added new claims 19-35. Applicant submits that the specification is replete with support for such claims. Thus, it is respectfully submitted that claims 19-35 introduce no new matter and are otherwise proper.

In light of the foregoing, Applicant respectfully submits that the Application is in *prima* facie condition for allowance at the present time. Accordingly, Applicant respectfully requests consideration of the present application and passage toward issuance thereof.

Respectfully submitted

KING & JOVANOVIC, PLC

Dated: 6/9/05

William L. King III Reg. No. 46,830

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(19) World Intellectual Property Organization International Bureau





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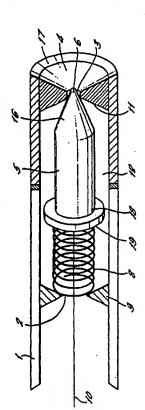
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

of inventorship (Rule 4.17(iv)) for US only

[Continued on next page]

(54) Title: A DEVICE FOR TEMPORARILY SHIELDING THE END OF A SURGICAL INSTRUMENT SHARP



(57) Abstract: The present invention relates to a device for temporarily shielding the end of a surgical instrument sharp. The device comprises a housing (1) having a proximal end and a distal end. An opening (3) is formed in the distal end of the housing for receiving an end of a surgical instrument sharp (7) therethrough. A body (5) located in the housing is movable between a first position in which an end of the body obstructs the opening and a second position in which the body is retracted from the opening. A resilient means (8) is provided for biassing the body into the first position. The device further comprises actuation means (10) to move the body against the action of the resilient means into the second position.

WO 2004/052214 A2



Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

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A DEVICE FOR TEMPORARILY SHIELDING THE END OF A SURGICAL INSTRUMENT SHARP

The present invention relates to a device for temporarily shielding the end of a surgical instrument sharp. In particular the present invention relates to a medical device to temporarily shield the end of a suture needle to allow for its removal from tissue safely without allowing the needle to prick the operator or patient unintentionally.

Suturing of body tissue is usually performed with a needle-holder or by a hand-held technique where the needle is guided into the tissue on one side of a wound. Forceps steady the tissue while the needle is inserted with a needle holder. The needle is then pushed beneath the skin to the other side of the wound and then pushed upwards and out of the skin from below. The needle is removed with either forceps or the needle holder which has released the needle after insertion. The suture thread is drawn through the tissue on both sides of the wound by way of being attached to the needle, and a knot is then tied. Tightening the knot then pulls both sides of the wound together.

It is known in the art to provide a surgical instrument sharp end foil for receiving and permanently trapping the free end of a surgical instrument sharp after use. Such a device provides a means for ensuring the permanent disposal and non reuse of surgical instrument sharps.

There is, however, a need for a device which is suitable for housing an end of a surgical instrument

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sharp, such as a suture needle, to enable the end of the surgical instrument sharp to be temporarily shielded so that it can be used again. Such a device is required, for example, to shield the end of a surgical instrument sharp during a medical procedure.

This is due to the fact that if the end of a surgical instrument sharp is not shielded in any way during a medical procedure, such as suturing, the end of the surgical instrument sharp may stab the operator or their assistant causing an injury. This type of injury can cause damage to the patient or transmission of infection when there is infected blood or body fluids on the needle. Infections such as Hepatitis B and C and Human Immunodeficiency Virus infections are among the more serious of these.

Such injuries usually occur when the operator or their assistant stabs themselves with the end of the surgical instrument sharp while in the process of carrying out medical procedures involving surgical instrument sharps such as in the suturing of a wound. They also occur when a surgical instrument sharp is being brought from one part of the operating theatre to another and being passed from person to person. In a crowded theatre especially when busy, the exposed end of the surgical instrument sharp is a hazard to staff.

The present invention aims to address at least some of the problems associated with the prior art.

Accordingly, the present invention provides a device for temporarily shielding the end of a surgical instrument sharp comprising:

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a housing having a proximal end and a distal end;

an opening formed in the distal end of the housing for receiving an end of a surgical instrument sharp therethrough;

a body located in the housing and movable between a first position in which an end of the body obstructs the opening and a second position in which the body is retracted from the opening;

resilient means for biassing the body into the first position; and

actuation means to move the body against the action of the resilient means into the second position.

Preferably the body is a piston with a tapered distal end.

Preferably the distal end of the body does not extend beyond the distal end of the housing when it is in said first position.

The resilient means may be a spring means which is mounted between the proximal end of the body and a stop means within the housing.

Preferably the spring means is a coil spring.

In another embodiment the device may be in combination with forceps and the resilient means can be provided by the resilience of the forceps. In this embodiment the actuation means is preferably a coupling between the body of the device and an arm of the forceps which causes movement of the body when the forceps are operated.

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In one embodiment the opening is defined by a re-entrant end wall portion of the housing.

In a further embodiment the inner surface of the housing tapers inwardly towards the opening.

In another embodiment the actuation means comprises a pullwire secured to the body. Advantageously, a pullwire may be employed in embodiments whereby the housing curves through angles up to 90°, and larger angles if pulleys are provided to mount the pullwire.

In another embodiment the body can wobble from side to side.

Viewed from a further aspect, the present invention relates to a device for temporarily shielding the end of a surgical instrument sharp comprising: a housing having a proximal end and a distal end; an opening formed in the distal end of the housing for receiving an end of a surgical instrument sharp therethrough; a body located in the housing and movable between a first position in which an end of the body obstructs the opening and a second position in which the body is retracted from the opening; first and second arms movable relative to each other; a support bar to couple the body to one of said first and second arms; wherein movement of the first and second arms relative to each other causes the support bar to move the body between said first and second positions. The support bar and the body may be formed integrally as a single component.

35 For a better understanding of the invention it will

now be described, by way of example, with reference to the accompanying drawings, in which:

- Fig. 1 is a partial cross section of one embodiment of the device;
 - Fig. 2 is a partial cross section of the device showing the free end of a suture needle lodged in the device.
- Fig. 3 is a perspective view of the device in use showing the device preparing to receive a suture needle from a wound.
- 15 Fig. 4 is a schematic cross section of a further embodiment of the device when the device is angled.
- Fig. 5 is a perspective view of a further

 embodiment of the device mounted on forceps
 in a first position.
- Fig. 6 is a perspective view of the embodiment of the device shown in Fig. 5 in a second position.
 - Fig. 7 is a cross-sectional view of a still further embodiment of the device mounted on forceps in a first position.
- Fig. 8 is a perspective view of the embodiment of the device shown in Figure 7 in a second position.
- 35 Fig.9 is a perspective view of a further

embodiment of the device mounted on forceps.

As shown in Figures 1 to 6 the device comprises a housing 1 in the form of a tubular wall which is shown circular in cross section but could be any other desired shape. The housing 1 is typically made of metal.

10 The housing 1 can be formed of one complete part or it can be formed of separate parts, for example two separate parts as shown in Figures 1 to 3. If the housing 1 is formed of separate parts then any suitable means can be used to join the separate parts rigidly together. For example, if the separate parts are metal, they can be welded together.

The device can be completely straight, as shown in Figures 1 to 3, 5 and 6 or angled, as shown in Figure 4, depending on the demands of different wounds. An angled device enables the operator to remove needles from tissues of different depths or positions where access to the tissue being sutured is restricted.

It is possible that where the housing 1 is formed of two separate parts, these parts can project at a variable angle from each other.

The housing 1 has a proximal end and a distal end.

The distal end of the device is the end shown in Figures 1 and 2 which is towards the right hand side of the page and the proximal end of the device is towards the left hand side of the page.

35 The housing 1 is partially closed at the distal end

by a wall 11 with a central opening 3. The opening 3 is defined by a re-entrant end wall portion 4 which shapes back into the housing 1 so that the opening 3 is recessed from the distal extremity of the housing 1. The size of the opening 3 is dependent on the surgical instrument sharp which it is intended to receive.

The inner surface of the housing 1 tapers inwardly towards opening 3.

As shown in Figures 1, 2 and 4 the housing 1 defines a chamber 12 which contains a body in the form of a piston 5. The piston 5 has a proximal end 18 preferably having a larger cross-section than the 15 rest of the piston 5. The proximal end 18 of the piston 5 is dimensioned to ensure a relatively tight fit within the housing 1, whilst still being movable axially within the chamber 12. The proximal end 18 of the piston 5 is therefore usually of the same cross-20 sectional shape as the chamber 12, although this would not be essential. Figures 1 and 2 over emphasize the gap between the proximal end 18 of the piston 5 and the sides of the housing 1. In reality there would be a much smaller gap, to ensure a tight 25 fit thus allowing the proximal end 18 of the piston 5 to move within the chamber 12, keeping to the midline.

In a preferred embodiment a washer 26, as shown in Figure 4, may be situated between the proximal end 18 of the piston 5 and the distal end 19 of the spring 8. This ensures that the piston 5 when retracted does not slip inside the spring 8.

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The rest of the body of the piston 5 is preferably dimensioned to ensure that there is not a tight fit between the sides of the housing 1 and the piston 5 but instead that there is adequate space between the body of the piston 5 and the sides of the housing 1 to ensure that a needle can be lodged between the sides of the piston 5 and the sides of the housing 1. Preferably, the diameter of the piston should be between 50 to 70 % of the internal diameter of chamber 12.

The piston 5 can take up any length within the housing 1 provided that some axial movement is still possible.

The piston 5 has a tapered distal end 16. The tip 6 of the tapered distal end 16 of the piston 5 is of such a shape and size that when the piston 5 is at rest, the tip 6 lodges in the opening 3, with a small

20 portion of the tip 6 protruding through the opening 3.

The tip 6 of the piston 5 whilst pointed is shaped such that it is not sharp enough to cause any harm.

Attached to the proximal end 18 of the piston 5 is a resilient member such as a coil spring 8 which is partly in compression. The proximal end 2 of the spring 8 is lodged against a stop 9 on the inner wall of the housing 1. The distal end 19 of the spring 8 is attached to the proximal end 18 of the piston 5. The spring 8 is dimensioned to ensure a tight fit within the housing 1, whilst still being movable axially within the chamber 12. The spring 8 is therefore usually of the same cross-sectional shape

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as the chamber 12 although this would not be essential. Figures 1 and 2 over emphasize the gap between the spring 8 and the sides of the housing 1. In reality there would be a much smaller gap, to ensure a tight fit.

Actuation means such as a lever or a pullwire 10 is secured to the proximal end 18 of the piston 5.

Actuation means such as handle, not shown in any of the Figures, could instead be attached directly to the spring 8.

Depending on the depth of the wound, the distance of the housing 1 from the surgeon's hand and/or the means for activating the actuation means can be varied by lengthening the housing 1, as shown in Figure 4. For example, for keyhole surgery this may be 30 to 60 cm (1 to 2 feet) in length.

As shown in Figure 4, the housing 1 may be curved, 20 i.e. the device may be angled. In these angled arrangements, pulley 21 and/or tracks 22 can be spaced inside the housing 1 to reduce the likelihood of the pullwire actuation means snagging or catching in the housing 1. Preferably the pulleys 21 and/or 25 tracks 22 are situated in the housing 1 after the proximal end 2 of the spring 8. The pulleys 21 can be in the form of circular pieces of material with a central hole, preferably made of metal or plastic, by which the pullwire 10 can pass through. The pulleys 30 21 have the same cross section as the chamber 12 formed by the housing 1 to ensure that they are lodged against the sides of the housing 1. The tracks 22 may be beads having a channel defined therein through which the pullwire 10 runs to enable the 35

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pullwire 10 to travel freely round corners. At least one pulley 21 and/or at least one track 22 is/are preferably provided when the device is angled. If a plurality of pulleys and/or tracks are used, they are preferably evenly spaced in the housing.

The general use of the device will now be explained. The use of the device with specific shaped needles and when attached to forceps is explained in more detail later.

In use the user will pull the piston 5 back against the force of the spring 8 using the pullwire 10.

The user can pull the pullwire 10 directly with his hand, or via an actuator or any other suitable mechanism which can be used to pull the pullwire 10. For example, the user may pull a bead or a ring attached to the pullwire 10 or a trigger-like mechanism. None of these mechanisms are shown in the Figures.

This action compresses the spring 8 to a greater extent and causes the piston 5 to retract within the housing 1 to allow the tip 6 of the piston 5 to disengage from the opening 3.

The opening 3 is then clear of obstruction to allow the end of a surgical instrument sharp such as a needle 7 to enter.

The re-entrant end wall portion 4 ensures that should the end of the needle 7 not enter the opening 3 immediately, but touch the outside edge 17 of the housing 1 instead, the sloping surface will deflect

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the end of the needle 7, and channel it into the housing 1 via the opening 3.

The loose fitting of the body of the piston 5 enables the body of the piston 5 to move from side to side i.e. to wobble. The sideways movement or "wobble" of the piston 5 reduces the likelihood of the needle 7 lodging against the piston 5 and instead enables the needle 7 to slide off and enter further alongside the piston 5 into the chamber 12.

The pointed tip 6 of the piston 5 ensures also that the sharp tip of the end of the needle 7 does not lodge against it, but deflects the needle tip sideways into the housing 1, allowing the needle 7 to enter further inside the housing 1, as seen in Figure 2.

Once the free end of the needle 7 has entered the

20 opening 3 and is within the housing 1 the user will
let go of the pullwire 10 which allows the spring 8
to advance the piston 5. The inner walls of the
housing 1 which taper towards opening 3 guide the
tapered distal end 16 and therefore the tip 6 of the

25 piston 5 towards the opening 3 as it advances. This
clamps the body of the needle 7 against the inner
edges of the opening 3.

The piston 5 with its ability for sideways movement
will accommodate itself to the lie of the needle 7 to
a certain extent when it descends to ensure that the
needle 7 does not move excessively on clamping. If
the piston 5 was a tight fit along its length in the
chamber 12 it could force the needle to move
excessively on clamping, the force along the shank of

the needle causing the proximal end of the needle to move within the tissue. In some tissues, for example, blood vessels, this may cause the vessel to tear.

The end of the needle 7 is now clamped within the housing 1, as shown in Figure 2, so that the end of the needle 7 is covered and cannot cause injury.

As explained earlier, suturing of body tissue is

usually performed with a needle holder or by a hand
held technique where the needle is guided into the
tissue on one side of a wound. Forceps 23, as shown
in Figure 5, having first and second spring-loaded
arms 26,27 may be used to steady the tissue while the
needle 7 is inserted with a needle holder. The needle
7 is then pushed beneath the skin to the other side
of the wound and then pushed upwards and out of the
skin from below.

An alternative embodiment of the invention is shown in Figure 5. In this embodiment the housing 1 of the device is fixed to the body of the forceps 23 at the junction between the first and second arms 26, 27. A support bar 24, mounted on the first arm 26 of the forceps 23, is attached to the piston 5 of the device using any suitable means. The attachment of the device to the forceps can be permanent, such as by welding or by brazing, or the attachment can be temporary, i.e. the device can be detachable.

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In use the resilient action is provided by the resting tension of the forceps 23. The first and second arms 26, 27 of the forceps 23 are springingly biassed open in the resting position as shown in Figure 5. In the open position, tension is

transmitted via the support bar 24 to bias the piston 5 towards the distal end of the housing 1 to obstruct the opening 3.

The piston 5 is moved upwards away from the opening 3 in the housing 1 by compression of the first and second arms 26, 27 of the forceps 23 by the user. This compression causes the angle of the support bar 24 to change thereby causing the piston 5 to lift up, 10 as shown in Figure 6.

The tension required to cause the piston 5 to lift up can be adjusted by varying axially the position of the piston 5 relative to the support bar 24. adjustment can be achieved by providing screw threads 15 on the proximal end 18 of the piston 5 where it is mounted in a collar provided on the support bar 24. By varying the position of the piston 5 relative to the collar the resting tension of the piston 5 and 20 also of a set of forceps teeth 25 provided on the first arm 26 can be adjusted. The piston 5 can still maintain its wobble at the distal end 6 thereof as the threads holding the piston are not tightened, i.e. they are loose and allow a small amount of lateral movement when the piston is lifted up and hanging free.

An alternative embodiment of the device mounted on forceps 23 is shown in Figures 7 and 8. The forceps 30 23 comprise first and second resilient arms 26,27 which are biassed towards an open position, as shown in Figure 7. In this embodiment, the piston 5 and support bar 24 are formed integrally and the end of the support bar 24 distal from the piston 5 is 35 attached to the first arm 26 of the forceps 23.

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will be appreciated that the forceps 23 or first arm 26 may be formed integrally with the support bar 24 and piston 5.

As shown in Figure 7, when the first and second arms 26,27 are in their open position, the piston 5 is located in an advanced position in the housing 1 such that the opening 3 defined in an end therefore is at least partially obstructed. Preferably, the end 6 of the piston 5 abuts the wall 11 of the housing 1 when the forceps 23 are in an open position.

When the first and second arms 26,27 of the forceps 23 are displaced towards each other, the support bar 24 is displaced and the piston 5 moves to a retracted position away from the opening 3, as shown in Figure 8. With the piston 5 in this retracted position, a needle 7 or other sharp may be received into the housing 1 through the opening 3. The first and second arms 26,27 may then be released and allowed to return to their open position. This movement of the first and second arms 26,27 towards their open position causes the piston 5 to be biassed towards the opening 3 thereby trapping the needle 7 in the housing 1.

It will be appreciated that in this embodiment the body 5 does not move along, or parallel to, the longitudinal axis of the housing 1. Rather, the body 5 follows an arcuate path. This movement allows the needle 7 more readily to be received into the housing 1 to the side of the body 5 closest to the forceps 23, as shown in Figure 8. This is particularly desirable as the needle 7 is likely to be oriented upwardly when, for example, a wound is being closed

and the device may be used without obstructing the user's view. In the offset open position, as shown in Figure 8, the portion of the wall 11 closest to the tip 6 of the body 5 advantageously shields the body 5 and, therefore, reduces the likelihood of the needle 7 being obstructed as it enters the housing 1.

In this arrangement, the resilience of the support bar 24 limits transverse movement of the piston 5, relative to the housing 1 and allows the needle 7 to be securely retained in the housing 1.

The forceps 23, support arm 24, piston 5 and housing 1 may be formed from a plastics material or metal. The components may be formed integrally as a single unit or formed separately and then assembled.

It will be appreciated that the device shown in Figures 7 and 8 need not be provided on a pair of forceps 23. Rather, the device may be formed as a dedicated instrument having first and second arms 26,27 which do not form part of a pair of forceps 3. It will, of course, be appreciated that the embodiment shown in Figures 5 and 6 also need not be provided on a pair of forceps 23.

A further embodiment of the device, intended to be used only once prior to disposal along with the medical sharp retained therein, is shown in Fig.9. The disposable device is detachably mounted on the end of the forceps 23 and has a housing 1 which is curved through 90° for use in stitching uncomplicated or readily accessible wounds. The housing 1 is preferably made of a plastic material to reduce the

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cost of the device. A metal end-piece (not shown) is provided in the housing 1 to define the wall 11 having the opening 3 therein. The piston is preferably also metal for engaging positively a surgical instrument sharp inserted into the device. A slidable actuating member 29 is provided on the housing 1 to retract the piston into the housing.

Disposable devices for use either with forceps or independently of forceps, having housings 1 with or without curved profiles, are envisaged.

In standard suturing a curved needle is used as shown in Figures 2 and 3. A curved needle 7 will come out of a wound along a curved path. To facilitate this, the user of the device will carry out a pill-rolling action with his fingers and a supinating action of the wrist causing the forceps and the device of the present invention to facilitate this curved path.

This rotating action will also exert a flexing force on the needle 7 helping it to lodge in the housing 1 as shown in Figure 2.

inner margin 13 of the opening 3 by the piston 5.

Secondly the tip of the end of the needle may be lodged against the inner side surface of the housing 1. Third, the shank of the needle 7 may lodge against the outer margin 14 of the opening 3. Fourth, the end of the shank of the needle 7 is held within the tissue of the wound 15. This rotating hand action, along a path similar to the concave curve of the needle 7, will tend to flex the needle 7, increasing its concavity. The tissues will require torque by the device to extract the needle 7. As the tissue

friction varies, depending on the type of wound, so will the torque required. The greater the torque required the more securely the needle 7 is lodged against the surfaces it rest upon.

- This twisting force will help to lodge the needle 7 firmly in the device and reduce the likelihood of it slipping out where there is significant resistance from the tissue.
- When used with straight needles the tip of the end of the needle 7 again lodges against the side of the inner surface of the housing 1 but because there is no curvature the shank does not. The straight needle is held by the piston 5, and when a torque is created, the tip of the end of the needle 7 lodges against the inner surfaces of the housing 1 and against the margins 14 of the opening 3.
- It is then possible, for example, when used in suturing for the needle 7 to be pulled by the user of the device from the tissue along with the thread, and a knot tied.
- When the needle 7 is ready to be discarded it can be carried in the device to the nearest disposal unit.

 It can be passed safely to another member of the surgical team for disposal.
- The housing 1 of the device can be configured so that

 it may be removably attached to other medical

 instruments, for example the end of a forceps or it

 may be configured for stand alone use such as in

 keyhole surgery.
- 35 Even though in a preferred embodiment the invention

is described with reference to a needle used for the application of sutures to wounds of the skin or deeper tissues in a wide variety of surgical procedures it is to be understood that the present invention can also be applied to any surgical instrument sharp, for example hypodermic needles, syringes, trocars and stylets.

10 herein may be used for surgical needles, hollow needles suitable for taking blood, wires and rods.

The device is also suitable for trapping the end of a thread or a string thereby further increasing the usefulness of the device for wound closure. An enlarged version of the device is also envisaged to assist in rod handling.

The device may also be used to shield a sewing needle when cloth or fabric is being stitched. The device may also be used to shield wires and the like during, for example, the assembly of electrical circuit boards.

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CLAIMS:

 A device for temporarily shielding the end of a surgical instrument sharp comprising:

a housing having a proximal end and a distal end;

an opening formed in the distal end of the housing for receiving an end of a surgical instrument sharp therethrough;

a body located in the housing and movable between a first position in which an end of the body obstructs the opening and a second position in which the body is retracted from the opening;

resilient means for biassing the body into the first position; and

actuation means to move the body against the action of the resilient means into the second position.

- 20 2. A device as claimed in claim 1 wherein the body is a piston with a tapered distal end.
- A device as claimed in any one of the preceding claims wherein the resilient means is a spring means
 which is mounted between the proximal end of the body and a stop means within the housing.
 - 4. A device as claimed in claim 3 wherein the spring means is a coil spring.
 - 5. A device as claimed in claim 1 or 2 in combination with forceps, wherein the device is mounted on the forceps and the resilient means is provided by the resilience of the forceps.

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6. A device as claimed in claim 5 in combination with forceps wherein said actuation means is a coupling provided between said body of the device and an arm of the forceps.

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- 7. A device as claimed in claim 6 in combination with forceps, wherein the coupling is formed integrally with the body.
- 10 8. A device as claimed in any one of the preceding claims wherein the opening is defined by a reentrant end wall portion of the housing.
- A device as claimed in any one of the preceding
 claims wherein the inner surface of the housing tapers inwardly towards the opening.
- 10. A device as claimed in any one of the preceding claims wherein the actuation means comprises a20 pullwire secured to the body.
 - 11. A device as claimed in any one of the preceding claims wherein at least the end of the body which obstructs the opening can wobble from side to side when the body is in said second position.
 - 12. A device as claimed in claim 1 further comprising first and second arms and said actuation means is coupled to at least one of said first and second arms.
 - 13. A device as claimed in claim 12 wherein said actuation means is a coupling provided between said body of the device and the at least one of said first and second arms.

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- 14. A device as claimed in claim 13 wherein said coupling is a support bar.
- 15. A device as claimed in claim 12, 13 or 14 wherein said actuation means is integrally formed with said body.
- 16. A device as claimed in any one of claims 12 to
 15 wherein said first and second arms are spring
 10 biassed towards or away from each other and the
 resilient means is provided by the spring bias of
 said first and second arms.
- 17. A device for temporarily shielding the end of a surgical instrument sharp comprising:
 - a housing having a proximal end and a distal end;

an opening formed in the distal end of the housing for receiving an end of a surgical instrument sharp therethrough;

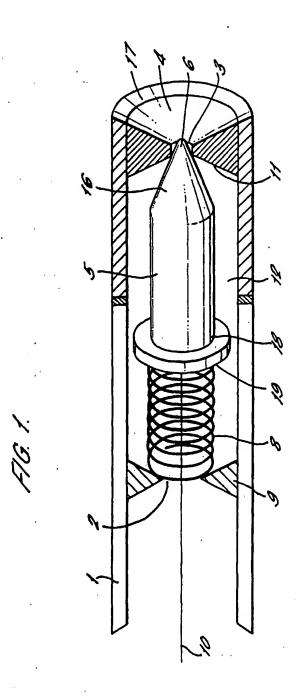
a body located in the housing and movable between a first position in which an end of the body obstructs the opening and a second position in which the body is retracted from the opening;

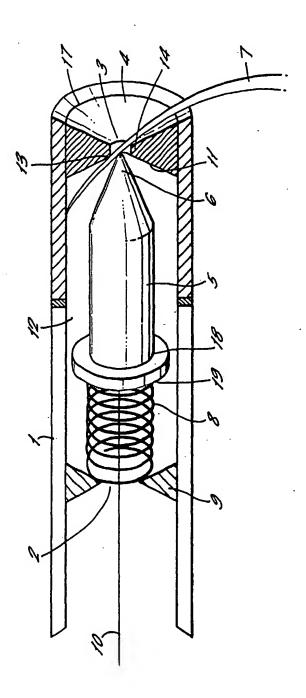
first and second arms movable relative to each other;

a support bar to couple the body to one of said first and second arms;

wherein movement of the first and second arms relative to each other causes the support bar to move the body between said first and second positions.

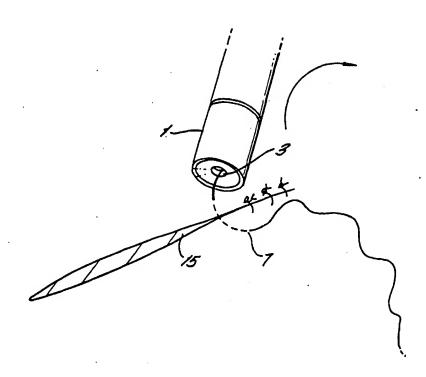
18. A device for shielding a surgical instrument sharp substantially as hereinbefore described and with reference to the accompanying drawings.



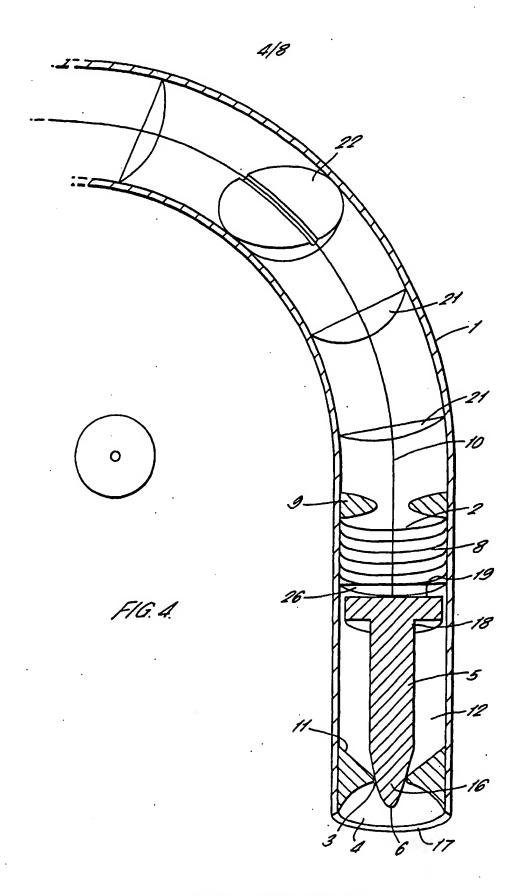


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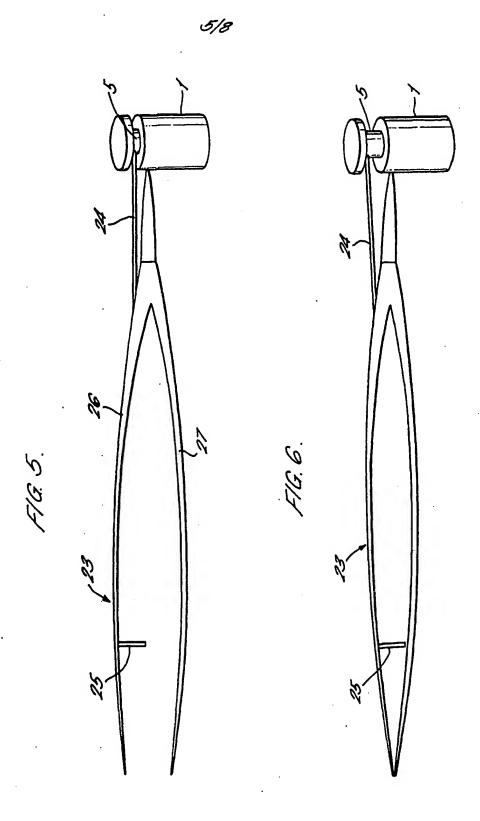
FIG.3

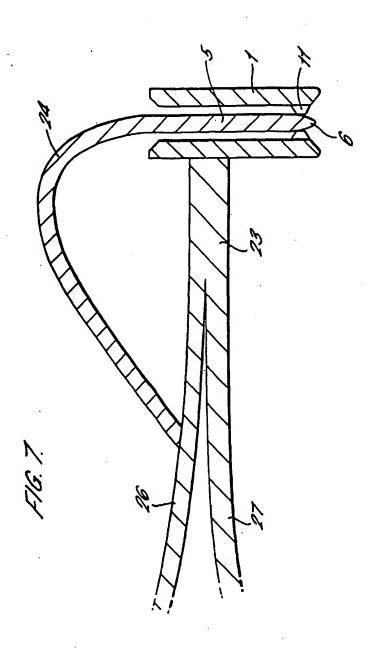


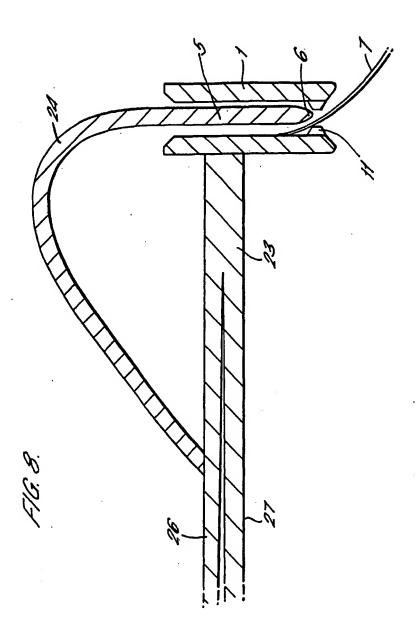
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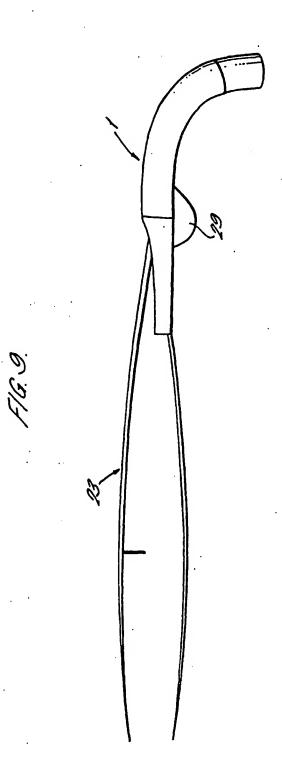
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INTERNATIONAL SEARCH REPORT

Intr mail Application No PCT/GB 03/05347

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A	US 2002/123757 A1 (FRYE DARRIN I 5 September 2002 (2002-09-05) paragraph '0026!; figure 5	1,3,4, 10,17,18				
A	US 4 949 717 A (SHAW EDWARD L) 21 August 1990 (1990-08-21) figures 1,2	1 August 1990 (1990-08-21)				
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Information on patent family members

int nal Application No PCT/GB 03/05347

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 5908426	Α	01-06-1999	NONE		
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Form PCT/ISA/210 (potent family annex) (January 2004)

IPG-051112

McNicholl

COMPLETE IF KNOWN

N/A

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DECLARATION FOR UTILITY OR

DESIGN

PATENT APPLICATION

(37 CFR 1.63)

Attorney Docket Number

First Named Inventor

Application Number

X Declaration Submitted OR	Declarati	on Filing D d after Initial	ate Ju	ıne 9, 2005
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Prior Foreign Application		Foreign Filing Date	Priority	Certified Copy Attached?
Number(s) 0228709.2	Country	(MM/DD/YYYY)	Not Claimed	Yes No
0318815.8	· GB GB	12/09/2002 08/11/2003		
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Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto:

[Page 1 of 2)

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City Belfast	State			_	ZIP BT9 6	6JH			Country UK	у
NAME OF SECOND INVENTO	DR:				A pe	etition I	nas been f	iled fo	r this un	signed inventor
Given Name (first and middle [if any])							y Name			
Inventor's Signature									Date	
Residence: City	State			Co	ountry			Citize	enship	
Mailing Address				1						
City	State				ZIP			Coun	ntry	
Additional inventors or a legal re	epresentative are br	eing nam	ed on the _	sı	upplement	tal sheet/	(s) PTO/SB/02	2A or 02	LR attache	ed hereto.

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Application Number	N/A
Filing Date	June 9, 2005
First Named Inventor	McNicholl
Title	A Device for Temporarily Shielding the End of a Surgical Instrument Sharp
Art Unit	N/A
Examiner Name	N/A
Attorney Docket Number	IPG-051112

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Ass	plicant/Inventor	the entire interest. See 37 CFR	3.71.				
Sia	tement under 37 C	CFR 3.73(b) is enclosed. (Form P	'TO/SB/96).				!
		SIGNATURE of Ap	plicant or Ass	ignee of F	Record		
Name	Brian McNicholl		· · · · · · · · · · · · · · · · · · ·				
Signature							
Date					Telephone	Ţ <u>-</u>	
NOTE: Signat	tures of all the invento than one signature is r	ors or assignees of record of the entire required, see below*.	interest or their re	presentative		Submit multiple	
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Description of Request and P USPTO Filing Fee	Request ayment Informati	t and Payr	nent Inf	formation						
Patent Fee	Patent Mainte	enance Fee	Trac	lemark Fee	Oti	ner Fee				
Application No.	Application No.		Serial No.		IDON Custome	r No.				
Patent No. Registr.										
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McNicholl

Case:

IPG-051112

Serial No.:

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Filed On:

June 9, 2005

For:

A DEVICE FOR TEMPORARILY SHIELDING THE END OF A SURGICAL INSTRUMENT

SHARP

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June 9, 2005

The United States Patent and Trademark Office mailroom stamp hereon acknowledges receipt of the following:

U.S. Letters Patent Entitled: A DEVICE FOR TEMPORARILY SHIELDING THE END OF A SURGICAL INSTRUMENT SHARP invented by McNicholl.

Including:

Transmittal Letter to the United States Designated/Elected Office; Preliminary Amendment;
A Copy of the International Application as Published;
Declaration and Power of Attorney;
PTO Form 2038 for fees identified thereon; and
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IPG-051112 JCO2 Rec'd PCT/PTO 09 50N 2805





Law Offices King & Jovanovic, PLC 170 College Avenue, Suite 230 Holland, Michigan 49423

PTO-1390 (Rev. 02-2005)

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TRANSMITTAL LETTER T	ATTORNEY'S DOCKET NUMBER					
DESIGNATED/ELECTE	IPG-051112 U.S. APPLICATION NO. (If known, see 37 CFR 1.5)					
CONCERNING A SUBMISSI	ON UNDER 35 U.S.C. 371	Cierra i Erektriett (18. (a. khowii: see 57 Gi K 1.5)				
INTERNATIONAL APPLICATION NO. PCT/GB03/05347	INTERNATIONAL FILING DATE 09/12/2003	PRIORITY DATE CLAIMED 09/12/2002				
TITLE OF INVENTION A Device for Tempo	rarily Shielding the End of a Surgical Instru	ment Sharp				
APPLICANT(S) FOR DO/EO/US McNicholl						
Applicant herewith submits to the United Sta	tes Designated/Elected Office (DO/EO/US) ems concerning a submission under 35 U.S	the following items and other information:				
						
	ENT submission of items concerning a sub	S.C. 371 (f)). The submission must include items				
(5), (6), (9) and (21) indicated bel	ow.	5.0. 371 (i)). The submission must include items				
4. X The US has been elected (Article	·					
process.	ation as filed (35 U.S.C. 371 (c)(2))					
	uired only if not communicated by the Interi	national Bureau).				
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	application was filed in the United States Re of the International Application as filed (35 t					
a. is attached hereto.	of the international Application as filed (35 t	J.S.C. 371 (c)(2)).				
	bmitted under 35 U.S.C. 154(d)(4).					
	International Application under PCT Article	19 (35 U.S.C. 371(c)(3))				
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. —	inicated by the International Bureau.					
	de; however, the time limit for making such	amendments has NOT expired.				
	de and will not be made.	·				
8. An English language translation o	f the amendments to the claims under PCT	Article 19 (35 U.S.C. 371(c)(3)).				
9. X An oath or declaration of the inver						
10. An English language translation o Article 36 (35 U.S.C. 371(c)(5)).	f the annexes of the International Prelimina	ry Examination Report under PCT				
Items 11 to 20 below concern document						
11. An Information Disclosure Statem		*				
	rding. A separate cover sheet in complian	ce with 37 CFR 3.28 and 3.31 is included.				
13. X A preliminary amendment.		·				
14. An Application Data Sheet under	37 CFR 1.76.					
15. A substitute specification.						
16. X A power of attorney and/or change		*				
17. A computer-readable form of the s	sequence listing in accordance with PCT R	ule 13 <i>ter</i> .2 and 37 CFR 1.821 – 1.825.				
	ternational Application under 35 U.S.C. 154					
19. A second copy of the English lang	uage translation of the International Applica	ation under 35 U.S.C. 154(d)(4).				
20. X Other items or information: Return	Postcard, Power of Attorney, and Certifica	te of Express Mail.				

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The following fees have been submitted						CALCULATIONS	PTO USE ONLY	
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170 College Aver Holland, Michigar		230				/illiam L. King III AME	•	
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Law Offices

KING & PARTNERS, PLC

170 College Avenue, Suite 230 Holland, Michigan 49423 Telephone (616) 355-0400 Facsimile (616) 355-9862

United States and International Intellectual Property Law

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Requested Statement Month:

June 2005

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06/01 230	E-REPLENISHMENT		9203	-\$65.00	\$3,500.00
06/13 2	PCT/US05/18046	RSV-041025 PCT	1602	\$700.00	\$2,800.00
06/13 4	PCT/US05/18046	RSV-041025 PCT	1703	\$39.00	\$2,761.00
06/13 5	PCT/US05/18046	RSV-041025 PCT	8007	\$20.00	\$2,741.00
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	\$3,435.00	\$759.00	\$65.00	\$2,741.00	·





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July 2005

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07/05 5	E-REPLENISHMENT		9203	-\$759.00	\$3,500.00
07/12 27	PCT/US05/14224	GEN-031208 PCT	8007	\$20.00	\$3,480.00
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	BALANCE	CHARGES	REPLENISH	BALANCE	
	\$2,741.00	\$470.00	\$759.00	\$3,030.00	





Requested Statement Month:

August 2005

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502131

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DATE SEQ	POSTING REF TXT	ATTORNEY DOCKET NBR	FEE CODE	AMT	BAL
08/02 1	10635620	OST-031113	2251	\$60.00	\$2,970.00
08/02 2	10635620	OST-031113	2202	\$175.00	\$2,795.00
08/09 200	E-REPLENISHMENT		9203	-\$705.00	\$3,500.00
08/23 14	10884480	GEN-001386C2	1814	\$130.00	\$3,370.00
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	BALANCE	CHARGES	REPLENISH	BALANCE	
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September 2005

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Requested Statement Month:

October 2005

Deposit Account Number:

502131

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November 2005

Deposit Account Number:

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11/01 166 E-REPLENISHMENT

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END REPLENISH BALANCE

\$3,300.00

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\$3,440.00





Requested Statement Month:

December 2005

Deposit Account Number:

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12/13 151 E-REPLENISHMENT

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CHARGES REPLENISH BALANCE

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\$3,500.00





Requested Statement Month:

January 2006

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502131

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01/18 20 10985663 VIC-031131 2001

\$395.00 \$3,105.00

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START BALANCE SUM OF CHARGES REPLENISH BALANCE

SUM OF

\$3,500.00

\$395.00

\$395.00

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Requested Statement Month:

February 2006

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10282543 OST-021151 2202

\$36.00

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\$3,500.00 \$36.00

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\$3,464.00





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March 2006

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\$3,464.00





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Country:

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SUM OF **END**

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May 2006

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Address:

WILLIAM L KING III

170 COLLEGE AVENUE

City:

HOLLAND

State:

MΙ

Zip:

49423

Country:

UNITED STATES

POSTING

ATTORNEY

FEE

DATE SEQ POSTING

DOCKET NBR

CODE

AMT

BAL

05/17 22 PCT/US06/16488 GEN-031171 P1 PCT 1703

\$144.00 \$3,320.00

START

SUM OF

SUM OF

END

BALANCE

CHARGES

REPLENISH BALANCE

\$3,464.00

\$144.00

\$.00

\$3,320.00

KING & PARTNERS, PLC.





Deposit Account Statement

Requested Statement Month:

June 2006 **Deposit Account Number:** 502131

Name:

Attention: WILLIAM L KING III Address: 170 COLLEGE AVENUE

City: **HOLLAND**

State: MΙ

Zip: 49423

Country: **UNITED STATES**

ATTORNEY FEE DOCKET COD **POSTING** DATE SEQ **AMT** BAL CODE

06/01 107 E-REPLENISHMENT 9203 -\$180.00 \$3,500.00

> START SUM OF SUM OF **END** BALANCE CHARGES REPLENISH BALANCE

\$3,320.00 \$.00 \$180.00 \$3,500.00